Title (en)

USING DRIVER ASSISTANCE TO DETECT AND ADDRESS ABERRANT DRIVER BEHAVIOR

Title (de)

VERWENDUNG EINER FAHRERUNTERSTÜTZUNG ZUM DETEKTIEREN UND ADRESSIEREN VON FEHLERHAFTEM FAHRERVERHALTEN

Title (fr)

UTILISATION D'AIDE À LA CONDUITE POUR DÉTECTER ET ADRESSER UN COMPORTEMENT DE CONDUCTEUR ABERRANT

Publication

EP 4021775 A4 20230906 (EN)

Application

EP 20876127 A 20201013

Priority

- US 201962915134 P 20191015
- US 202017065722 A 20201008
- US 2020055373 W 20201013

Abstract (en)

[origin: US2021107494A1] The technology relates to identifying and addressing aberrant driver behavior. Various driving operations may be evaluated over different time scales and driving distances. The system can detect driving errors and suboptimal maneuvering, which are evaluated by an onboard driver assistance system and compared against a model of expected driver behavior. The result of this comparison can be used to alert the driver or take immediate corrective driving action. It may also be used for real-time or offline training or sensor calibration purposes. The behavior model may be driver-specific, or may be a nominal driver model based on aggregated information from many drivers. These approaches can be employed with drivers of passenger vehicles, busses, cargo trucks and other vehicles.

IPC 8 full level

B60W 60/00 (2020.01); **B60Q 1/46** (2006.01); **B60Q 9/00** (2006.01); **B60W 40/02** (2006.01); **B60W 40/08** (2012.01); **B60W 40/09** (2012.01); **B60W 50/00** (2006.01); **B60W 50/02** (2012.01); **B60W 50/14** (2020.01)

CPC (source: CN EP KR US)

B60Q 1/46 (2013.01 - EP); **B60Q 1/525** (2013.01 - EP); **B60Q 9/008** (2013.01 - EP); **B60W 40/02** (2013.01 - KR); **B60W 40/09** (2013.01 - CN EP KR US); **B60W 50/00** (2013.01 - CN); **B60W 50/0205** (2013.01 - EP); **B60W 50/0225** (2013.01 - EP); **B60W 50/06** (2013.01 - US); **B60W 50/14** (2013.01 - CN EP KR US); **B60W 60/0015** (2020.02 - US); **B60W 60/0016** (2020.02 - KR); **B60W 60/0051** (2020.02 - KR US); **B60W 60/0059** (2020.02 - KR); **G01C 21/30** (2013.01 - US); **G01C 21/3641** (2013.01 - EP KR); **G01C 21/3658** (2013.01 - EP KR); **G08G 1/166** (2013.01 - US); B60W 30/18163 (2013.01 - EP); B60W 2040/0818 (2013.01 - EP); B60W 2040/0863 (2013.01 - KR); B60W 2050/0005 (2013.01 - KR); B60W 2050/0029 (2013.01 - CN EP KR); B60W 2050/0071 (2013.01 - EP KR); B60W 2050/0215 (2013.01 - EP); B60W 2050/143 (2013.01 - CN KR); B60W 2520/10 (2013.01 - EP); B60W 2520/105 (2013.01 - EP); B60W 2530/18 (2013.01 - KR); B60W 2540/30 (2013.01 - US); B60W 2552/05 (2020.02 - EP); B60W 2552/53 (2020.02 - EP); B60W 2554/406 (2020.02 - EP); B60W 2555/60 (2020.02 - EP); B60W 2556/10 (2020.02 - EP KR US); B60W 2556/50 (2020.02 - EP); B60W 2556/65 (2020.02 - US); B60W 2720/103 (2013.01 - KR); B60Y 2400/90 (2013.01 - KR)

Citation (search report)

- [XI] EP 2778007 A1 20140917 - INST NAT RECH INF AUTOMAT [FR]
- [XI] WO 2015081335 A2 20150604 - IMS SOLUTIONS INC [US]
- [A] JP 2009018765 A 20090129 - UNIV OSAKA PREFECTURE
- [A] CN 107826118 A 20180323 - NANJING AERTE TRAFFIC TECH CO LTD
- See also references of WO 2021076492A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 12005906 B2 20240611; **US 2021107494 A1 20210415**; CN 114555443 A 20220527; EP 4021775 A1 20220706; EP 4021775 A4 20230906; JP 2022552609 A 20221219; KR 20220054429 A 20220502; WO 2021076492 A1 20210422

DOCDB simple family (application)

US 202017065722 A 20201008; CN 202080072775 A 20201013; EP 20876127 A 20201013; JP 2022515680 A 20201013; KR 20227011297 A 20201013; US 2020055373 W 20201013